THESE RECORDS MAY BE RELEASABLE UNDER THE FOIA REQUEST 15 DAYS AFTER SIGNATURE DATE UNLESS WE HEAR OTHERWISE FROM FAA NTSB COUNSEL



Mike Monroney Aeronautical Center Oklahoma City, Oklahoma 73125

Federal Aviation
Administration

Tuesday, April 9, 2019

National Transportation Safety Board

Federal Way, WA 98003

ACCIDENT # 0024 INDIVIDUAL#: 001 NAME: MODE: AVIATION

DATE OF ACCIDENT 02/03/2019 DATE RECEIVED 02/08/2019 PUTREFACTION: No

N# 414RS **NTSB#** WPR19FA079 **CAMI REF#** 201900024001

LOCATION OF ACCIDENT Yorba Linda, CA

SPECIMENS Bile, Blood (Heart), Brain, Gastric, Heart, Kidney, Liver, Lung, Muscle, Spinal Fluid, Spleen, Urine, Vitreous

FINAL FORENSIC TOXICOLOGY FATAL ACCIDENT REPORT

CARBON MONOXIDE: The carboxyhemoglobin (COHb) saturation is determined by spectrophotometry with a 10% cut off and confirmed by chromatography.

NO CARBOXYHEMOGLOBIN detected in Blood (Heart)

CYANIDE: The presence of cyanide is screened by Conway Diffusion, when the COHb level is equal to or greater than 10% or upon special request. Cyanides are quantitated by spectrophotometry and confirmed by chromatography. The reporting cutoff for cyanide is 0.25 ug/mL. Normal blood cyanide concentrations are less than 0.15 ug/mL, while lethal concentrations are greater than 3 ug/mL.

NOT PERFORMED

VOLATILES: The volatile concentrations are determined by headspace gas chromatography at a cut off of 10 mg/dL. Where possible, positive ethanol values are confirmed by Radiative Energy Attenuation.

· NO ETHANOL detected in Blood (Heart)

DRUGS: Specimens are analyzed using immunoassay, chromatography, mass spectrometry, or spectrophotometry. Concentrations (ug/mL) at or above those in () can be determined for, but not limited to, the following drugs: amphetamines (0.010), opiates (0.010), marihuana (0.001), cocaine (0.020), phencyclidine (0.002), benzodiazepines (0.030), barbiturates (0.060), antidepressants (0.100), and antihistamines (0.020). Drugs and/or their metabolites, that are not impairing or abused, may be reported from the initial tests. See the CAMI Drug Information Web Site for additional information (http://jag.cami.jccbi.gov/toxicology/).

- 71.36 (ug/mL, ug/g) Acetaminophen detected in Urine
- 0.88 (ng/mL, ng/g) Delta-9-THC detected in Blood (Heart)
- 2.9 (ng/mL, ng/g) Carboxy-Delta-9-THC detected in Blood (Heart)
- 11-Hydroxy-Delta-9-THC NOT detected in Blood (Heart)
- 135.7 (ng/mL, ng/g) Carboxy-Delta-9-THC detected in Urine
- 13.1 (ng/mL, ng/g) 11-Hydroxy-Delta-9-THC detected in Urine
- Sildenafil detected in Blood (Heart)
- · Desmethylsildenafil detected in Blood (Heart)
- · Sildenafil detected in Urine
- · Desmethylsildenafil detected in Urine
- 67 (ng/mL, ng/g) Diphenhydramine detected in Blood (Heart)
- Diphenhydramine detected in Urine



CONTINUATION OF REF#: 201900024001

- · Sotalol detected in Blood (Heart)
- · Sotalol detected in Urine
- · Telmisartan detected in Blood (Heart)
- · Telmisartan detected in Urine
- Amlodipine detected in Blood (Heart)
- · Amlodipine detected in Urine



Russell Lewis, Ph.D., F-ABFT Supervisor, Forensic Sciences Bioaeronautical Sci. Research Lab CAMI, FAA c=US, o=U.S. Government, ou=AMC, ou=AMC, cn=RUSSELL J LEWIS 2019.04.11 13:55:59 -05'00'